

Report No.:

Test Time: 02.10.2020 14:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.35A 55W 4000K prozrachnoe steclo

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.254 A

Power: 55.20 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 8022.1 lm

Measurement Flux: 8022.1 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.3, 157.2, 158.9, 159.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.2, 118.0, 122.3, 122.9

Luminaire Efficacy Rating (LER): 145.38

Central Intensity: 2795.19 cd

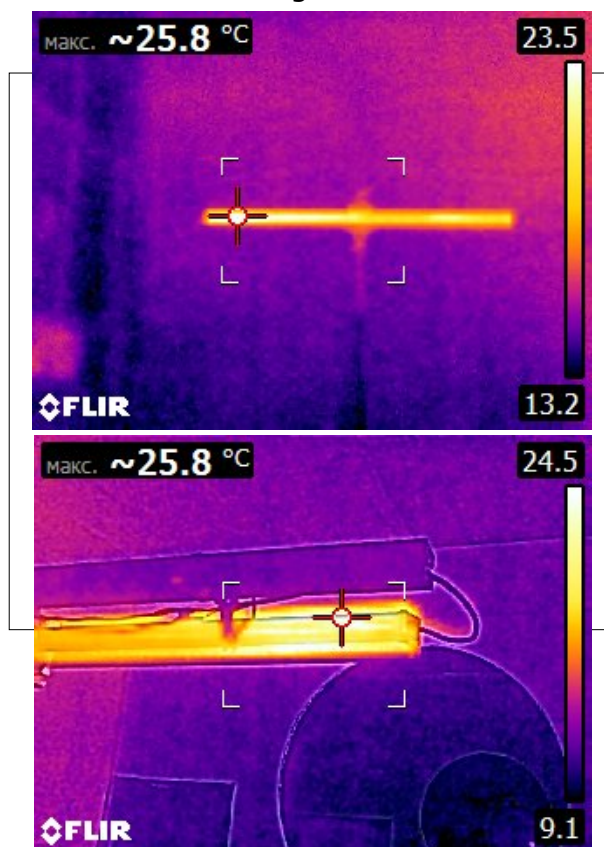
Max. Intensity: 2813.41 cd

Pos of Max. Intensity: H90 V8

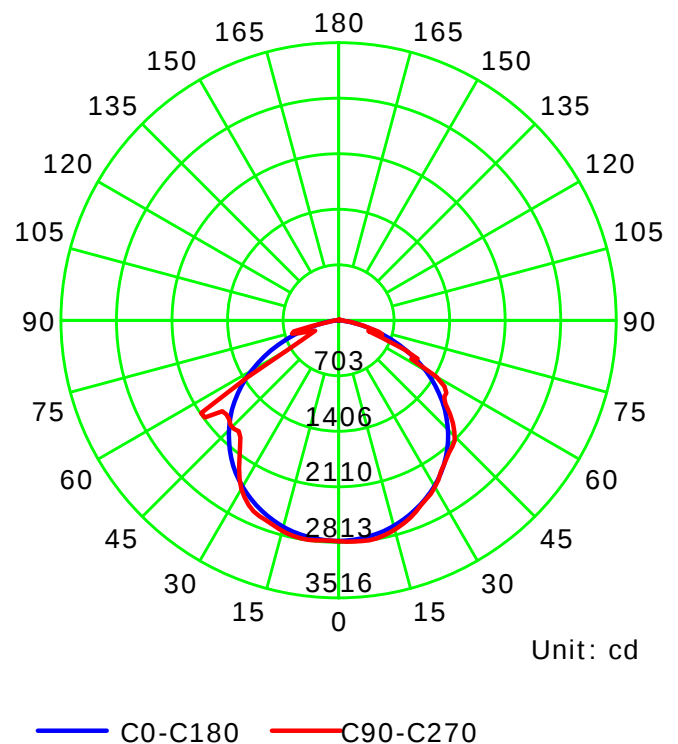
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.28

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

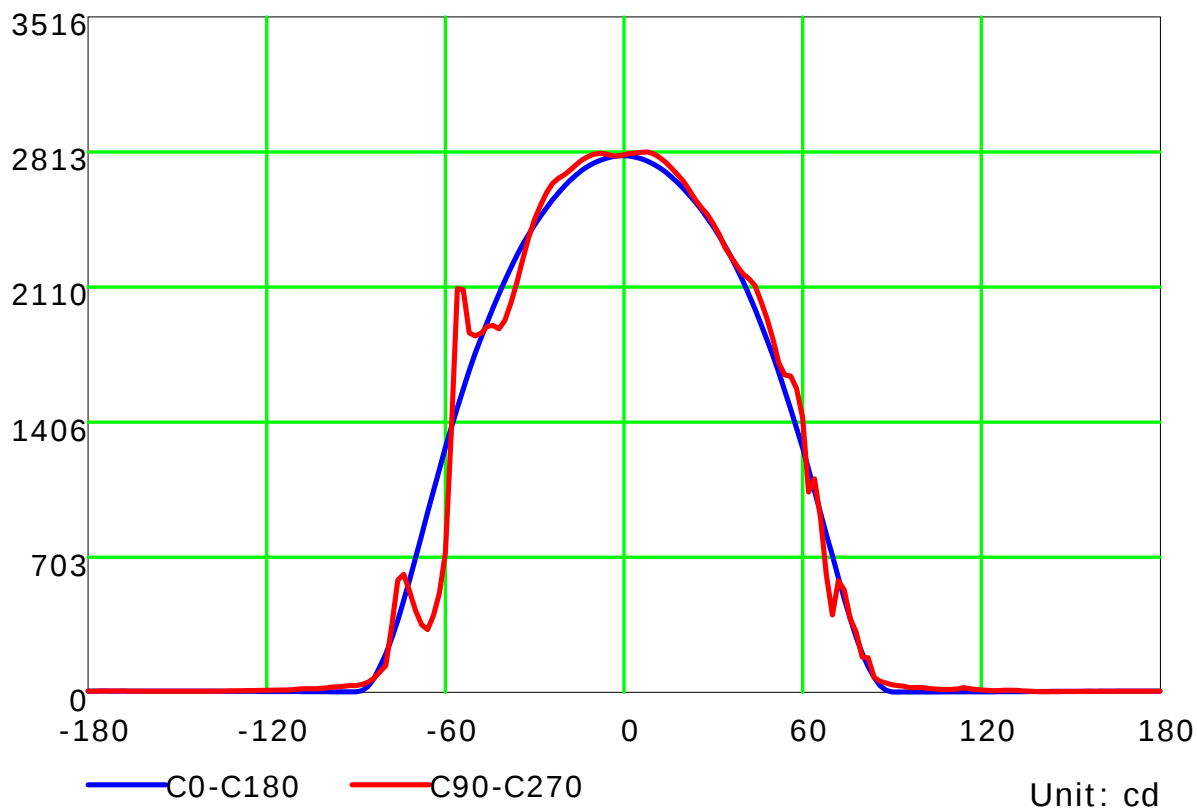
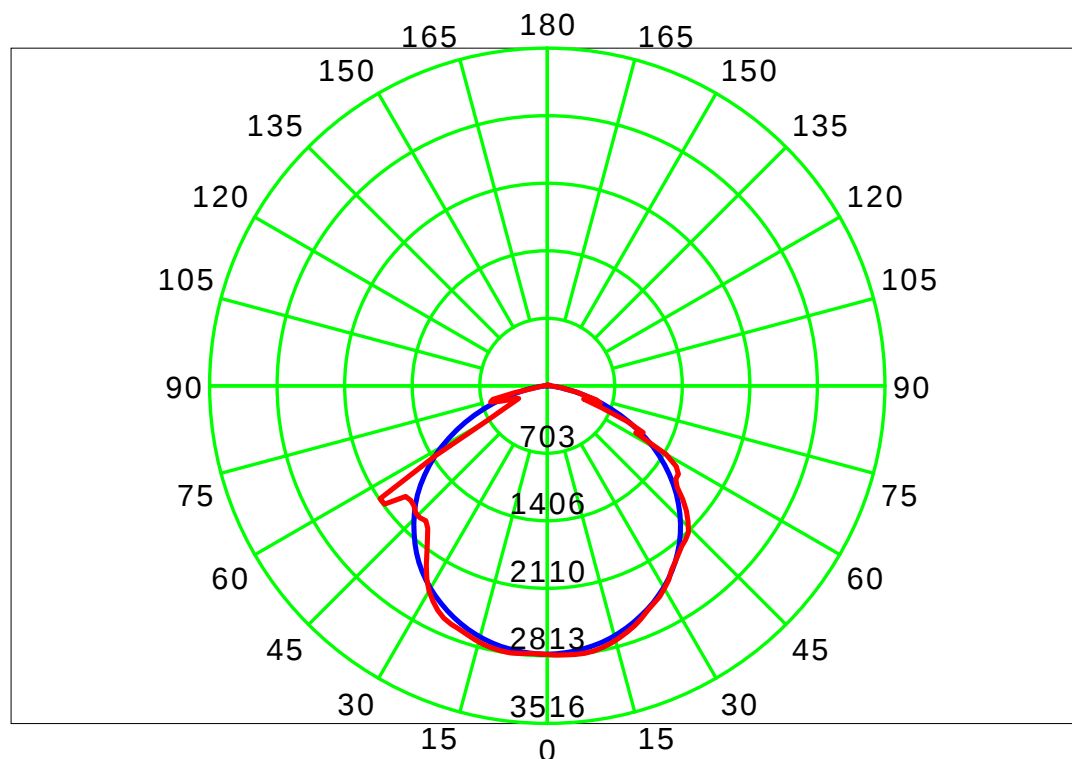
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

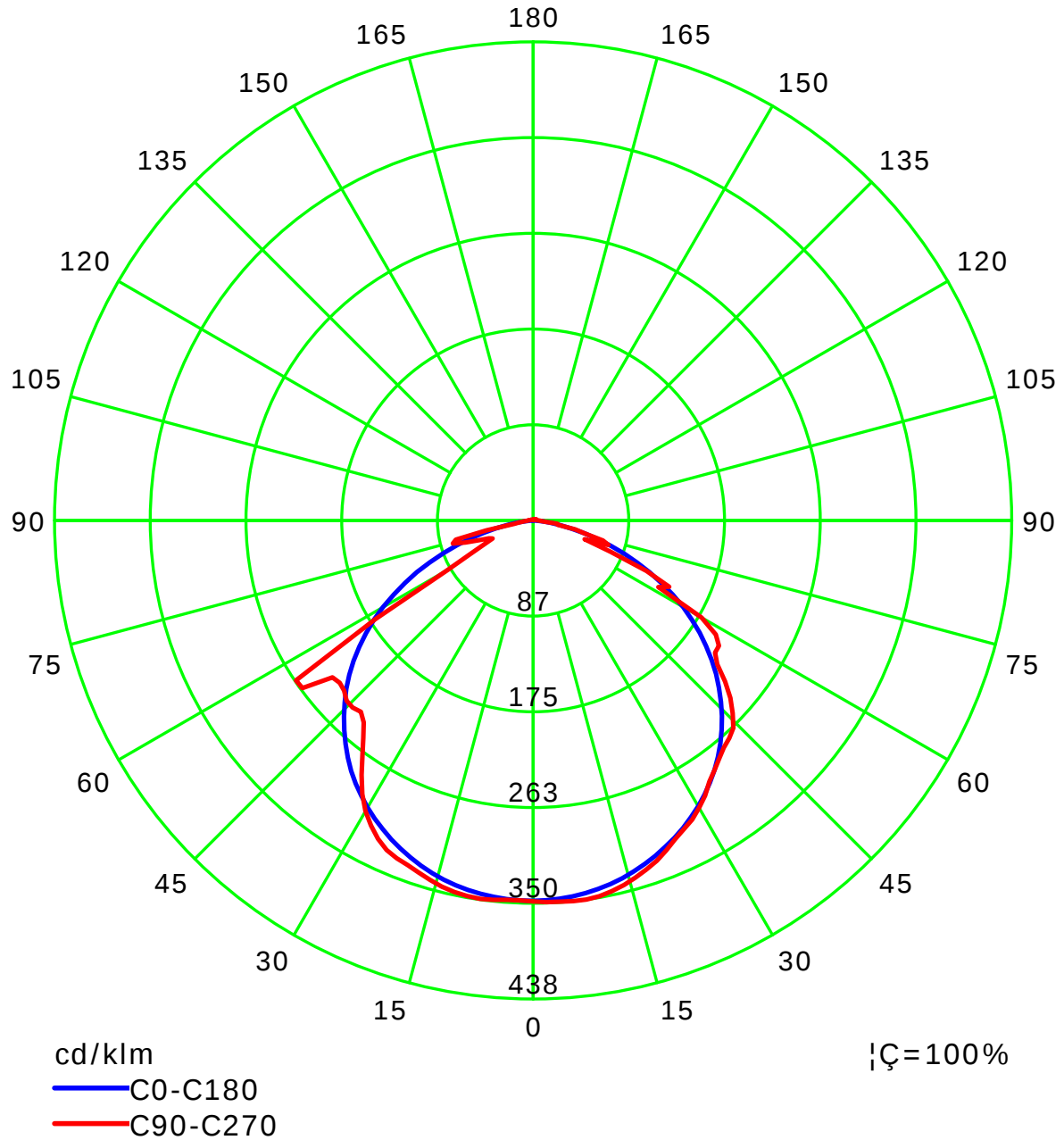
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

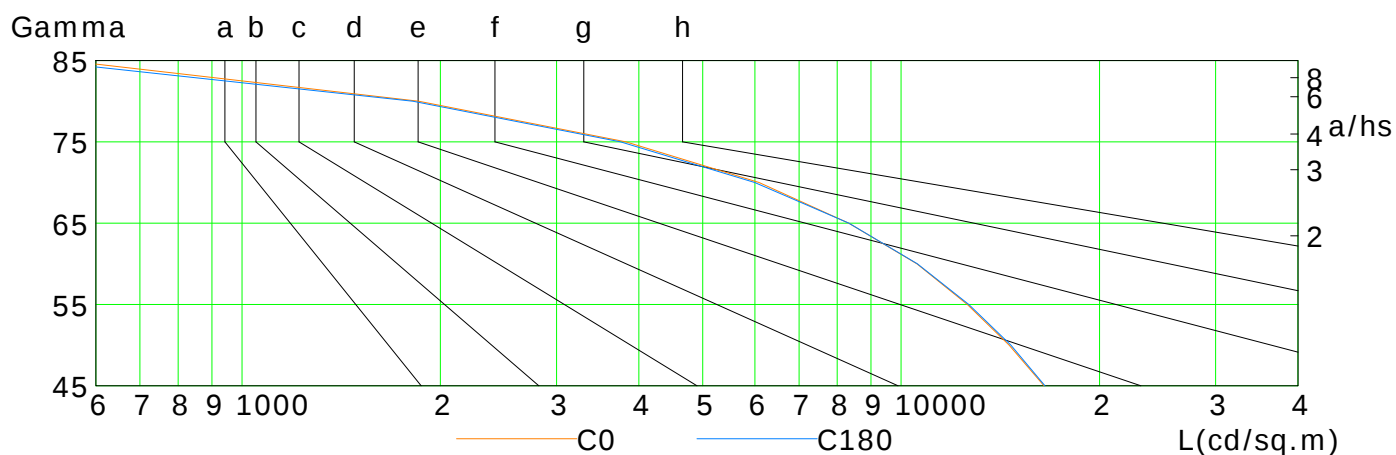
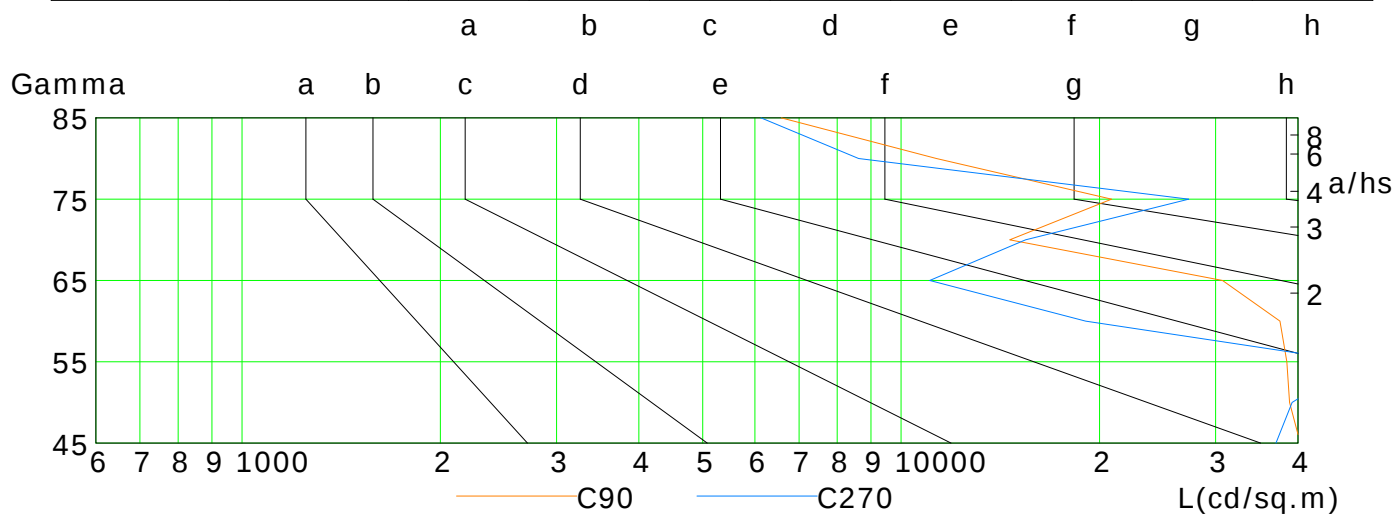
Distance: 12.682 m

Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16473	14584	12601	10567	8325	6088	3823	1853	540
C90	40326	38849	38478	37565	30727	14613	20859	11312	6581
C180	16526	14670	12663	10585	8331	5996	3752	1816	488
C270	37032	39183	48958	19050	11053	15442	27306	8618	6128

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

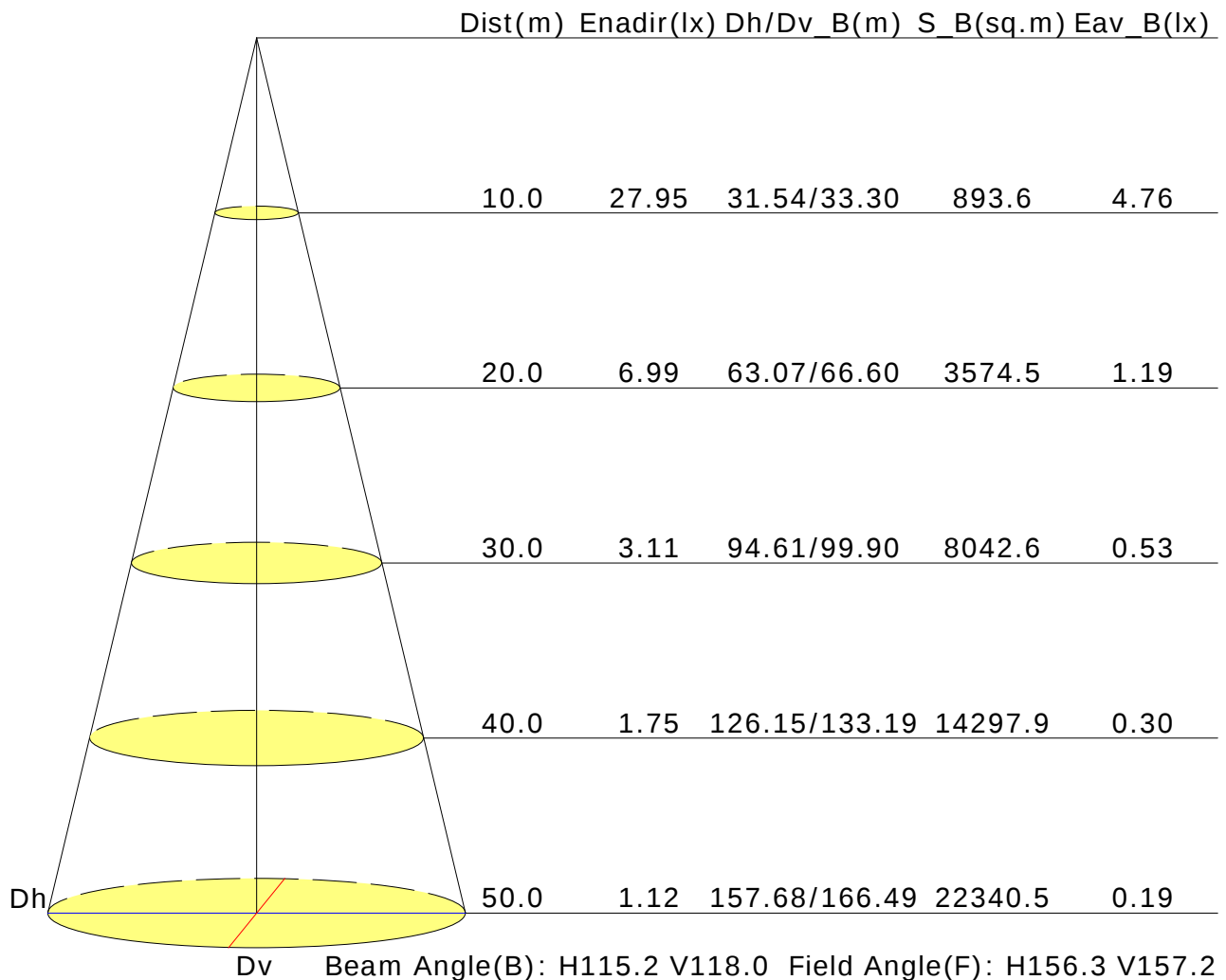
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Illuminance at a Distance



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	21.6	22.9	21.9	23.2	23.4	23.7	25.0	24.0	25.3	25.5
3H	22.5	23.7	22.8	24.0	24.3	24.2	25.5	24.6	25.7	26.0
4H	22.7	23.9	23.1	24.2	24.5	24.8	25.9	25.2	26.2	26.6
6H	22.7	23.8	23.1	24.1	24.5	25.1	26.2	25.5	26.5	26.8
8H	22.7	23.8	23.1	24.1	24.4	25.1	26.1	25.5	26.5	26.8
12H	22.7	23.7	23.1	24.0	24.4	25.1	26.1	25.5	26.4	26.8
X=4H Y=2H	22.2	23.4	22.6	23.7	24.0	23.9	25.0	24.3	25.4	25.7
3H	23.2	24.2	23.6	24.5	24.9	24.5	25.5	24.9	25.8	26.2
4H	23.5	24.4	23.9	24.7	25.1	25.2	26.1	25.6	26.4	26.8
6H	23.5	24.3	24.0	24.7	25.1	25.5	26.3	26.0	26.7	27.1
8H	23.5	24.2	24.0	24.7	25.1	25.6	26.3	26.0	26.7	27.2
12H	23.5	24.1	24.0	24.6	25.0	25.6	26.2	26.1	26.7	27.1
X=8H Y=4H	23.5	24.2	24.0	24.6	25.1	25.2	25.9	25.6	26.3	26.7
6H	23.6	24.2	24.1	24.6	25.1	25.6	26.2	26.1	26.6	27.1
8H	23.6	24.1	24.1	24.6	25.1	25.7	26.2	26.2	26.6	27.1
12H	23.6	24.0	24.1	24.5	25.0	25.7	26.1	26.2	26.6	27.1
X=12H Y=4H	23.5	24.1	24.0	24.6	25.0	25.1	25.8	25.6	26.2	26.7
6H	23.6	24.1	24.1	24.6	25.1	25.6	26.1	26.1	26.5	27.0
8H	23.6	24.1	24.1	24.5	25.1	25.6	26.1	26.2	26.6	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.5/-0.6				
S=1.5H	+0.7/-1.2					+1.9/-1.5				
S=2.0H	+1.3/-2.0					+3.4/-3.2				

Calculate in accordance with CIE Pub.117. The table is revised with 8022Im ($8\log(F/F_0) = 7.2$).

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Operator:

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Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.57	0.68	0.76	0.81	0.89	0.94	0.97	1.02	1.04	
	0.30		0.50	0.61	0.69	0.74	0.83	0.88	0.92	0.98	1.01	
	0.20		0.44	0.55	0.63	0.69	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.49	0.60	0.67	0.73	0.80	0.86	0.89	0.94	0.97	
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.86	0.91	0.95	
0.30	0.50	0.20	0.54	0.64	0.71	0.76	0.82	0.87	0.90	0.94	0.96	
	0.30		0.48	0.58	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
	0.20		0.43	0.54	0.61	0.67	0.74	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.41	0.51	0.58	0.64	0.71	0.76	0.79	0.84	0.87	
Rating:55W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.99	0.81	0.68	0.59	0.47	0.39	0.33	0.25	0.21	
	0.30		0.83	0.69	0.60	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	0.96	0.78	0.65	0.57	0.45	0.40	0.31	0.24	0.20	
	0.30		0.81	0.67	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.93	0.75	0.63	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.66	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.59	0.49	0.41	0.36	0.29	0.24	0.20	0.16	0.13	
Rating:55W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:55W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												